

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. Map units in red represent the soils having the greatest potential for caving when excavated.)

Map symbol and soil name	ENG - Shallow Excavations
AdA: ALDINO-----	Very limited Depth to saturated zone Cutbanks cave
AdB2: ALDINO-----	Very limited Depth to saturated zone Cutbanks cave
AdC2: ALDINO-----	Very limited Depth to saturated zone Slope (No slope limitation to Slope) Cutbanks cave
AsC: ALDINO-----	Not Rated Not Rated; Fragments > 75mm Depth to saturated zone Cutbanks cave
AuB: ALDINO-----	Very limited Depth to saturated zone Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
Av: ALLUVIAL LAND---	Very limited Depth to saturated zone Flooding Cutbanks cave
BaA: BAILE-----	Very limited Depth to saturated zone Cutbanks cave
BaB: BAILE-----	Very limited Depth to saturated zone Cutbanks cave
BmA: BALTIMORE-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Cutbanks cave
BmB2: BALTIMORE-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Cutbanks cave
BmC2: BALTIMORE-----	Not Rated Not Rated; Fragments > 75mm

Map symbol and soil name	ENG - Shallow Excavations
	Not Rated; Clay percent Slope (No slope limitation to Slope)
BnB: BALTIMORE-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
Br: BARCLAY-----	Very limited Cutbanks cave Depth to saturated zone
BtA: BELTSVILLE-----	Very limited Cutbanks cave Depth to saturated zone
BtB: BELTSVILLE-----	Very limited Cutbanks cave Depth to saturated zone
BtC2: BELTSVILLE-----	Very limited Cutbanks cave Depth to saturated zone
BuB: BELTSVILLE-----	Very limited Cutbanks cave Depth to saturated zone
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
BuC: BELTSVILLE-----	Very limited Cutbanks cave Depth to saturated zone
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
BwB2: BRANDYWINE-----	Very limited Cutbanks cave
BwC2: BRANDYWINE-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
ByD2: BRANDYWINE-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
ByD3: BRANDYWINE-----	Not Rated Not Rated; Fragments > 75mm

Map symbol and soil name	ENG - Shallow Excavations
	Slope Cutbanks cave
ByE: BRANDYWINE-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
CaA: CAPTINA-----	Very limited (Somewhat limited to Very limited) Depth to saturated zone Cutbanks cave
CaB2: CAPTINA-----	Very limited (Somewhat limited to Very limited) Depth to saturated zone Cutbanks cave
CcA: CHESTER-----	Somewhat limited Cutbanks cave
CcB2: CHESTER-----	Somewhat limited Cutbanks cave
CcC2: CHESTER-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
CgB2: CHESTER-----	Somewhat limited Cutbanks cave
CgC2: CHESTER-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
ChB2: CHILLUM-----	Very limited Cutbanks cave
ChC2: CHILLUM-----	Very limited Cutbanks cave
ChC3: CHILLUM-----	Very limited Cutbanks cave
CkB2: CHILLUM-----	Very limited Cutbanks cave
NESHAMINY-----	Somewhat limited Cutbanks cave
CkC2: CHILLUM-----	Very limited Cutbanks cave
NESHAMINY-----	Somewhat limited Cutbanks cave
CkD2: CHILLUM-----	Very limited Cutbanks cave Slope

Map symbol and soil name	ENG - Shallow Excavations
NESHAMINY-----	Somewhat limited (Somewhat limited to Very limited) Slope Cutbanks cave
ClB: CHILLUM-----	Very limited Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
ClD: CHILLUM-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
CmB: CHRISTIANA-----	Somewhat limited (Somewhat limited to Very limited) Too clayey (Not too clayey to Too clayey) Cutbanks cave
CmC2: CHRISTIANA-----	Somewhat limited (Somewhat limited to Very limited) Too clayey (Not too clayey to Too clayey) Cutbanks cave
CnB2: CHROME-----	Not Rated Not Rated; Fragments > 75mm Depth to hard bedrock Cutbanks cave
CoC3: CHROME-----	Not Rated Not Rated; Fragments > 75mm Depth to hard bedrock Cutbanks cave
CoE3: CHROME-----	Not Rated Not Rated; Fragments > 75mm Depth to hard bedrock Slope
Cp: CLAY PITS-----	Somewhat limited (Somewhat limited to Very limited) Too clayey (Not too clayey to Too clayey) Cutbanks cave Slope (No slope limitation to Slope)
Ct: COASTAL BEACHES-	Very limited *+ Cutbanks cave *+ Depth to saturated zone (No wetness depth limitation to Depth to saturated zone) Flooding
Cu: CODORUS-----	Very limited Depth to saturated zone Cutbanks cave Flooding
Cv: COMUS-----	Not Rated Not Rated; Fragments > 75mm

Map symbol and soil name	ENG - Shallow Excavations
	Cutbanks cave Flooding
CwB2: CONESTOGA-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave
CwC2: CONESTOGA-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Cutbanks cave
DcB: DELANCO-----	Very limited Depth to saturated zone Cutbanks cave
Du: DUNNING-----	Very limited Depth to saturated zone Flooding Too clayey (Not too clayey to Too clayey)
EdB2: EDGEMONT-----	Somewhat limited Cutbanks cave
EdC2: EDGEMONT-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
EgD: EDGEMONT-----	Very limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
EgE: EDGEMONT-----	Very limited Slope Cutbanks cave
EhB2: ELIOAK-----	Not Rated Not Rated; Fragments > 75mm Too clayey (Not too clayey to Too clayey) Cutbanks cave
EhC2: ELIOAK-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Too clayey (Not too clayey to Too clayey)
EkB2: ELIOAK-----	Not Rated Not Rated; Fragments > 75mm Too clayey (Not too clayey to Too clayey) Cutbanks cave
EkC2: ELIOAK-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Too clayey (Not too clayey to Too clayey)
ElC3: ELIOAK-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope)

Map symbol and soil name	ENG - Shallow Excavations
	Too clayey (Not too clayey to Too clayey)
Em: ELKTON-----	Very limited Depth to saturated zone Cutbanks cave
En: ELKTON-----	Very limited Depth to saturated zone Cutbanks cave
Eo: ELKTON-----	Very limited Depth to saturated zone Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
EsB: ELSINBORO-----	Not Rated Not Rated; Fragments > 75mm Depth to saturated zone Cutbanks cave
EsC2: ELSINBORO-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Depth to saturated zone
Fa: FALLSINGTON-----	Very limited Depth to saturated zone Cutbanks cave
Fs: FALLSINGTON-----	Very limited Depth to saturated zone Cutbanks cave
FtB: FORT MOTT-----	Very limited Cutbanks cave
GaB: GALESTOWN-----	Very limited Cutbanks cave
GaC: GALESTOWN-----	Very limited Cutbanks cave
GcB2: GLENELG-----	Somewhat limited Cutbanks cave
GcC2: GLENELG-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
GcC3: GLENELG-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
GcD2: GLENELG-----	Very limited Slope Cutbanks cave
GcD3: GLENELG-----	Very limited Slope Cutbanks cave
GgB2: GLENELG-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave
GgC2: GLENELG-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Cutbanks cave
GgD2: GLENELG-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
GgD3: GLENELG-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
GlB: GLENELG-----	Somewhat limited Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
GlC: GLENELG-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
GnA: GLENVILLE-----	Very limited (Somewhat limited to Very limited) Depth to saturated zone Cutbanks cave
GnB: GLENVILLE-----	Very limited (Somewhat limited to Very limited) Depth to saturated zone Cutbanks cave
GuB: GLENVILLE-----	Very limited (Somewhat limited to Very limited) Depth to saturated zone Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density

Map symbol and soil name	ENG - Shallow Excavations
HaA: HAGERSTOWN-----	Somewhat limited (Somewhat limited to Very limited) Cutbanks cave Too clayey (Not too clayey to Too clayey)
HaB2: HAGERSTOWN-----	Somewhat limited (Somewhat limited to Very limited) Cutbanks cave Too clayey (Not too clayey to Too clayey)
HaC2: HAGERSTOWN-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave Too clayey (Not too clayey to Too clayey)
Hb: HATBORO-----	Very limited Depth to saturated zone Cutbanks cave Flooding
HoB2: HOLLINGER-----	Very limited Cutbanks cave
HoC2: HOLLINGER-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
HrD3: HOLLINGER-----	Very limited Slope Cutbanks cave
CONESTOGA-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
HsC: HOLLINGER-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
CONESTOGA-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave Slope (No slope limitation to Slope)
Iu: IUKA-----	Very limited (Somewhat limited to Very limited) Depth to saturated zone Flooding Cutbanks cave
JpB: JOPPA-----	Very limited Cutbanks cave
JpC2: JOPPA-----	Very limited Cutbanks cave
JpD2: JOPPA-----	Very limited Cutbanks cave Slope

Map symbol and soil name	ENG - Shallow Excavations
JuD: JOPPA-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
KeB2: KELLY-----	Very limited Cutbanks cave Depth to saturated zone Depth to hard bedrock
KeC2: KELLY-----	Not Rated Not Rated; Clay percent Depth to hard bedrock Slope (No slope limitation to Slope)
KsC: KELLY-----	Somewhat limited (Somewhat limited to Very limited) Depth to hard bedrock Cutbanks cave
KuB: KELLY-----	Very limited Cutbanks cave Depth to saturated zone Depth to hard bedrock
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
LeB2: LEGORE-----	Very limited Cutbanks cave
LeC2: LEGORE-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
LeD2: LEGORE-----	Very limited Slope Cutbanks cave
LeE: LEGORE-----	Very limited Slope Cutbanks cave
LfC: LEGORE-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave Slope (No slope limitation to Slope)
LfD: LEGORE-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
LfE: LEGORE-----	Not Rated Not Rated; Fragments > 75mm

Map symbol and soil name	ENG - Shallow Excavations
	Slope Cutbanks cave
LgC3: LEGOIRE-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
LgD3: LEGOIRE-----	Very limited Slope Cutbanks cave
LhB: LEGOIRE-----	Very limited Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
LhC: LEGOIRE-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
LlB: LENOIR-----	Very limited Depth to saturated zone Too clayey (Not too clayey to Too clayey) Cutbanks cave
LmB: LENOIR-----	Very limited Depth to saturated zone Too clayey (Not too clayey to Too clayey) Cutbanks cave
LmC2: LENOIR-----	Very limited Cutbanks cave Depth to saturated zone Slope (No slope limitation to Slope)
LnC3: LENOIR-----	Very limited Cutbanks cave Depth to saturated zone Slope (No slope limitation to Slope)
LoB: LENOIR-----	Very limited Depth to saturated zone Too clayey (Not too clayey to Too clayey) Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
Lr: LEONARDTOWN-----	Very limited Depth to saturated zone Depth to dense layer (No dense layer limitation to Depth to dense layer) Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
Ls: LINDSIDE-----	Very limited Cutbanks cave Depth to saturated zone Flooding
LyB: LOAMY AND CLAYEY LAN-----	Not Rated Not Rated; bulk density Cutbanks cave
LyD: LOAMY AND CLAYEY LAN-----	Not Rated Not Rated; bulk density Slope (No slope limitation to Slope) Cutbanks cave
LyE: LOAMY AND CLAYEY LAN-----	Not Rated Not Rated; bulk density Slope Cutbanks cave
Ma: MADE LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
MbB2: MANOR-----	Somewhat limited Cutbanks cave
MbC2: MANOR-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
MbC3: MANOR-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
MbD2: MANOR-----	Very limited Slope Cutbanks cave
MbD3: MANOR-----	Very limited Slope Cutbanks cave
McB2: MANOR-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave
McC2: MANOR-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Cutbanks cave
McC3: MANOR-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope)

Map symbol and soil name	ENG - Shallow Excavations
	Cutbanks cave
McD2: MANOR-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
McD3: MANOR-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
MdE: MANOR-----	Very limited Slope Cutbanks cave
MeD: MANOR-----	Very limited Slope Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
MgC: MANOR-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave Slope (No slope limitation to Slope)
GLENELG-----	Not Rated Not Rated; Fragments > 75mm Cutbanks cave Slope (No slope limitation to Slope)
MhD: MANOR-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
BRANDYWINE-----	Not Rated Not Rated; Fragments > 75mm Depth to hard bedrock Slope
MhE: MANOR-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
BRANDYWINE-----	Not Rated Not Rated; Fragments > 75mm Depth to hard bedrock Slope
MkA: MATAPEAKE-----	Somewhat limited (Somewhat limited to Very limited) Cutbanks cave
MkB: MATAPEAKE-----	Somewhat limited (Somewhat limited to Very limited) Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
MkC2: MATAPEAKE-----	Somewhat limited (Somewhat limited to Very limited) Cutbanks cave Slope (No slope limitation to Slope)
M1A: MATTAPEX-----	Very limited Cutbanks cave Depth to saturated zone
M1B: MATTAPEX-----	Very limited Cutbanks cave Depth to saturated zone
MmB: MATTAPEX-----	Very limited Cutbanks cave Depth to saturated zone
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
Mn: MELVIN-----	Very limited Depth to saturated zone Flooding Cutbanks cave
Mo: MELVIN-----	Very limited Depth to saturated zone Flooding Cutbanks cave
Mr: MINE DUMPS AND QUARR-----	Very limited (Somewhat limited to Very limited) Content of large stones Slope (No slope limitation to Slope) Cutbanks cave
MsB2: MONTALTO-----	Somewhat limited Cutbanks cave Too clayey (Not too clayey to Too clayey)
MsC2: MONTALTO-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave Too clayey (Not too clayey to Too clayey)
MtB2: MT. AIRY-----	Not Rated Not Rated; Fragments > 75mm Depth to soft bedrock Cutbanks cave
MtC2: MT. AIRY-----	Not Rated Not Rated; Fragments > 75mm Slope (No slope limitation to Slope) Depth to soft bedrock
MtD2: MT. AIRY-----	Not Rated Not Rated; Fragments > 75mm Slope Depth to soft bedrock

Map symbol and soil name	ENG - Shallow Excavations
MtD3: MT. AIRY-----	Not Rated Not Rated; Fragments > 75mm Slope Depth to soft bedrock
NeB2: NESHAMINY-----	Somewhat limited Cutbanks cave
NeC2: NESHAMINY-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave
Ot: OTHELLO-----	Very limited Depth to saturated zone Cutbanks cave
Po: POCOMOKE-----	Very limited Ponding Depth to saturated zone Cutbanks cave
ReC2: RELAY-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Depth to hard bedrock Cutbanks cave
ReD2: RELAY-----	Very limited Slope Depth to hard bedrock Cutbanks cave
RsD: RELAY-----	Somewhat limited (Somewhat limited to Very limited) Slope (No slope limitation to Slope) Cutbanks cave Too clayey (Not too clayey to Too clayey)
RsE: RELAY-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
RyD3: RELAY-----	Very limited Slope Depth to hard bedrock Cutbanks cave
Sg: SAND AND GRAVEL PITS-----	Not Rated Not Rated; Fragments > 75mm Not Rated; bulk density Cutbanks cave *+
ShA: SASSAFRAS-----	Very limited Cutbanks cave
ShB: SASSAFRAS-----	Very limited Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
ShC2: SASSAFRAS-----	Very limited Cutbanks cave
ShC3: SASSAFRAS-----	Very limited Cutbanks cave
ShD2: SASSAFRAS-----	Very limited Cutbanks cave Slope
SlA: SASSAFRAS-----	Very limited Cutbanks cave
SlB: SASSAFRAS-----	Very limited Cutbanks cave
SlC2: SASSAFRAS-----	Very limited Cutbanks cave
SnB: SASSAFRAS-----	Very limited Cutbanks cave
URBAN LAND-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
SsD3: SASSAFRAS-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
JOPPA-----	Very limited Cutbanks cave Slope (No slope limitation to Slope)
SsE: SASSAFRAS-----	Very limited Slope Cutbanks cave
JOPPA-----	Very limited Slope Cutbanks cave
St: STONY LAND-----	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave
SuB2: SUNNYSIDE-----	Very limited Cutbanks cave
Sw: SWAMP-----	Very limited Ponding Depth to saturated zone Cutbanks cave
Tm: TIDAL MARSH-----	Very limited Ponding Depth to saturated zone

Map symbol and soil name	ENG - Shallow Excavations
	Content of organic matter (No organic matter limitation to Content of organic matter)
Ub: PAVED AREAS-----	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; bulk density
WaA: WATCHUNG-----	Not Rated Not Rated; Fragments > 75mm Depth to saturated zone Too clayey (Not too clayey to Too clayey)
WaB: WATCHUNG-----	Not Rated Not Rated; Fragments > 75mm Depth to saturated zone Too clayey (Not too clayey to Too clayey)
WcB: WATCHUNG-----	Not Rated Not Rated; Fragments > 75mm Depth to saturated zone Too clayey (Not too clayey to Too clayey)
WdA: WOODSTOWN-----	Very limited Cutbanks cave Depth to saturated zone
WdB: WOODSTOWN-----	Very limited Cutbanks cave Depth to saturated zone
WoA: WOODSTOWN-----	Very limited Cutbanks cave Depth to saturated zone
WoB: WOODSTOWN-----	Very limited Cutbanks cave Depth to saturated zone

* INDICATES NULL DATA WAS USED.

+ INDICATES DEFAULT VALUES WERE USED.

